Tunitskiy, N. N., Devyatykh, G. G., JTHORS: 57-28-4-32/39 Petrov, P. S., Torlin, B. Z.

The Separation of Carbon Isotopes by the Thermodiffusion of TITLE: Carbon Monoxide (Razdeleniye izotopov ugleroda termodiffuziyey

okisı ugleroda)

Zhurnal Tekhnicheskoy Fiziki, 1958, Vol. 28, Nr 4, pr. 881-PERIODICAL:

-885 (USSR)

ABSTRACT: The investigations described here had already been terminated

in 1953, when reference 9 was published. - The separation of carbon isotopes by means of the thermal diffusion of carbon monoxide in glass towers with a diameter of 9 and 14,5 mm, a

length of 1 and 2 m with a platinum wire of 0,4 - 0,6 mm diameter as a heating-element were investigated here. The experimental results are in agreement with the theory by Dzhons (Jones ?) - Ferri - Onsager. - It is shown that in a number of cases the use of carbon monoxide as working gas has certain advantages as compared to the use of methane. The ratio of the separating factor of carbon to that of oxygen

differs from the theoretical value. The latter is equal to 2. Card 1/2 The magnitude of the deviation depends on the steam-content

The Separation of Carbon Isotopes by the Thermodiffusion of 57-28-4-32/39 Carbon Montaide

in the cas.

There are 5 figures, 3 tables, and 12 references, 3 of which

are Soviet

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karjova, Moskva

(Loccow, Enysical-Chemical Institute imeni L. Ya Karjov)

SUBMITTED: April 17, 1956

cara 2/2

PETROV, Petr Sergayevich; SEMENOV, S.M., red.; ANDREYEVA, L.S., tekhn. red.

[For trade-union activist workers on raising labor productivity]
Profaktivu o rezervakh povysheniia proizvoditel'nosti truda.

Moskva, Profizdat, 1962. 77 p. (Bibliotechka profsoiuznogo aktivista, no.9(33))

(MIRA 15:5)

(Labor productivity)

(Trade unions)

PETROV, P.St.; ILIEVA, L.

Physicomechanical properties of the Quaternary and Pliocene sediments in the territory of Sofia. Izv Geolinst BAN 8:133-192 '60.

(EEAI 10:5)

(Bulgaria -- Sedimentation and deposition)

GORANOV, Al.; VITKOV, V.G.; PETROV, P.St.

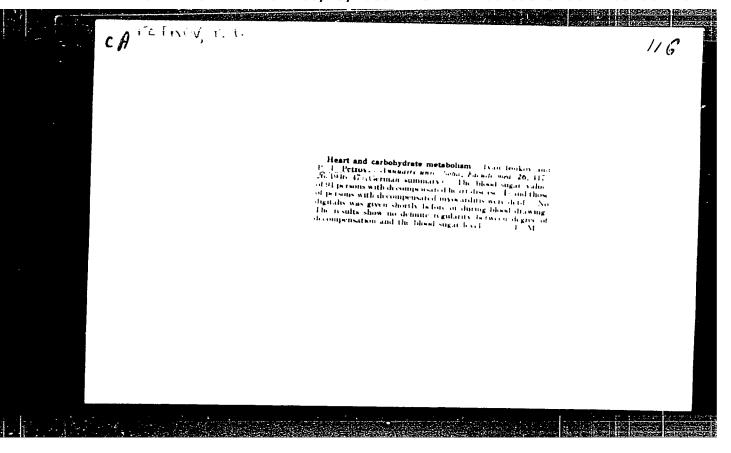
Perlites in the Eastern Rhodope Mountains. Izv Geol inst EAH 8:323-345 *60. (EEAI 10:5)

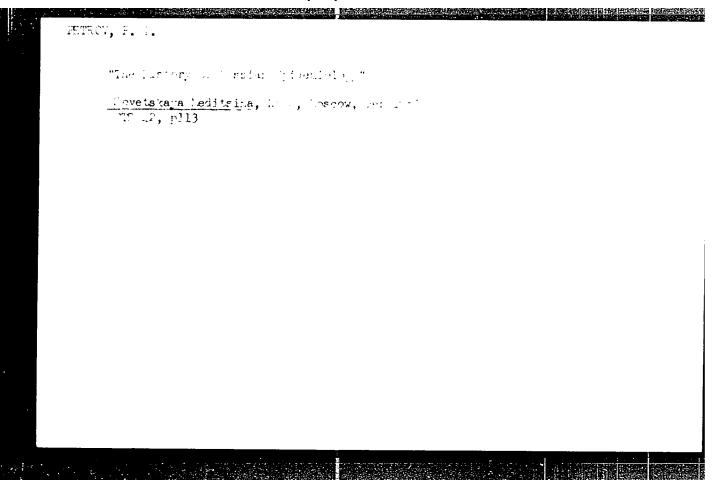
(Bulgaria--Pearlite)

PETROV, P. St.

Basic regularities in the distribution of mineral waters in Bulgaria. Trudove wurkhu inzh geol khidrol 3:83-158 '64.

Hot mineral springs in the Chepino Valley. Ibid.:159-185





PETROV, P.T.

Seminars in medical history in Tharkov Medical Institute. Sovet. sdravookhr. 11 no.4:19-21 July-Aug 1952. (CIML 23:2)

1. Docent. 2. Of the Department of the History of Medicine, Khar'kov Medical Institute (Director -- Docent I. F. Kononenko).

PETKOV, P.I.

DERKACH, V.S.; PETROV, P.T., kandidat meditsinskikh nauk

Review of Manilo Samoilovich's "Selected Works." 2d ed. V.S. Derkach, P.T. Petrov. Vest. AMN SSSR no. 4:56-60 '53. (MLRA 7:1)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Derkach). (Samoilovich, Danila Samoilovich, 1746-1805) (Medicine)

PETROV. P.T., detaent

How I.P. 'evilov made use of historical facts in his works. Vrance (AT & 1 17)

1. Asserts istoric medital w Aber'kovakozo meditalnakozo inarituta (2.710). IVAN PETROVICE. 1849-1936)

PETROV, P.T. (Khar'kov)

Activity of the Section of Historians of Medicine of the Kharkov Province Hygienic Society. Sov. zdraw. 22 no.7: 91-93 '63 (MIRA in:12)

ILIEVA, L.; PETROV, P. St.; PATAZOV, An.

Mineral composition of the finely dispersed part of the Plioceme clay deposits in the region of Sofia. Izv Geol inst BAN 9:53-76 '61.

PETROV, P.T., dotsent

Mistakes in historical medical literature. Vrach.delo no.6: 653-654 Je 160. (MIRA 13:7)

1. Kafedra organizatsii zdravookhraneniya i istorii meditsiny Khar'kovskogo meditsinekogo instituta. (BIBLIOGRAPHY--MEDICINE)

PETROV, P.T., dots.

StA. Tomilin, outstanding hygienist and medical historian.
Vrach.delo no.11:1215-1216 N'58 (MIRA 12:1)

1. Kafedra organisatsii zdravookhraneniya i istorii meditsiny Khar'kovskogo meditsinskogo instituta. (TONILIN, SERGEI ARKAD'EVICH, 1877)

- 1. PETROV, P. V.
- 2. USSR (600)
- 4. Drilling and Boring Machinery
- 7. Fastening of tool in boring mill spindle. Stan. i instr. 23. No. 9. 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

GOYKOLOV, Ye.F.; KANTOROVICH, I.G., inzh.; PETROV, P.V.; RAYTSESS, A.Ya.; CHERNOV, A.V., inzh.; SHASHKOV, V.F.; SHISHKOV, I.A.; SHMIDT, Kh.M.; KEYMAKH, L.I., retsenzent; KUDRYAVTSEV, A.V., retsenzent; V redaktirovanii prinimali uchastiye: ZOTOV, A.V.; TELYANER, D.M., SHIROKOVA, G.M., red.izd-va; STEPANOVA, E.S., tekhn.red.; RUDAKOVA, N.I., tekhn.red.

[Handbook for builders of reinforced concrete industrial chimneys and silos] Spravochnik stroitelia zhelezobetonnykh zavodskikh trub i silosov. Pod red. A.V.Chernova. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. 1 stroit.materialam, 1959. 300 p.

(MIRA 13:1)

(Silos) (Chimneys)

25 6000

8/032/60/026/04/19/046 B010/B006

AUTHORS:

Kulik, A.A., Petrov. P.V.

TITLE:

Magnetization of Workpieces in Quality Controllof Thermal

Processing

PERIODICAL Zavodskaya laboratoriya, 1960, Vol. 26, No. 4, pp. 460 462

TEXT: Hardness control of workpieces can be carried out by residual magnetic induction determinations. Magnetization can be attained by means of an apparatus containing solenoids and having a current supply which is suddenly interrupted. In the present case, the influence of the type of weakening of the magnetic field of the solenoid (from the maximum value down to zero) on the magnitude of the remanent magnetic induction of the test piece was investigated. Tests of differently, shaped workpieces made of steel of the types 30KhGSa 18KhNYA and 2Kh13 were carried out by using solenoids 196 mm long (inside opening 45mm; 40 mm, winding n = 1780). Test pieces were subjected to various thermal pretreatments. It was found that in controlling the quality of the magnetic field of the solenoid is steadily decreased from the maximum

Card 1/2

Magnetization of Workpieces in Quality Control of Thermal Processing

B/032/60/026/04/19/046 B010/B006

value to zero. A unique relation between the remanent magnetic induction and the thermal pretreatment, however, is obtained only if a certain voltage of the magnetizing field is maintained for each material (e.g. a value of H 350 cersteds for 30KhGSA steel). It is most practical to magnetize the workpiece up to complete saturation. The applicability of electromagnets for this purpose was investigated. A diagram (Fig. 3) and the description of an electromagnet for magnetizing cylindrical workpieces are given. There are 3 figures and 5 Soviet references.

Card 2/2

PETROV, P.Ye., aspirant; ALIKAYEV, V.A., nauchnyy rokovotinel' ranc'v. dotsent

Some data on the methodology of electrocardiograms. A community on of newborn calves. Veterinariia 42 no.12:54-57 D. 185.

l. Moskovskaya veterinarnaya akademiya.

```
PETROV, R.

More about dried fruit. Obshchestv. pit. no. 7:51 J1 158.

(MIRA 11:7)

(Fruit, Dried)
```

PETROV, R. USSR/Electronics - Literature

Feb 53

"What to Read in Television," R. Petrov

Radio, No 2, pp 63-64

Most books on television for amateurs have been published recently by Gosenergoizdat in the "Mass Rudio Library series under the general editorship of Academician A. I. Berg.

Among the books were S. A. Yel'yashkevich's "Commercial Television Receivers and their Use" (Promythlennyya televizary i ikh eksplatatsiya) and A. Ya. Korniyenko's "The Wired Television Center" (Radiotranslyatsionnyy televizionnyy uzel.

PETROV, R. A.

Characteristics of the course of peptic ulcer in middle and old age. Terap. arkh. no.12:77-83 '61. (MIRA 15:2)

1. Iz kafedry fakul'tetskoy terapii (zav. - prof. A. G. Gukasyan) sanitarno-gigiyenicheskogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta imeni I. M. Sechenova.

(PEPTIC ULCER)

PETROV, R.A.

Effect of vitamin B₁₂ on the state of liver cells in different forms of experimental dystrophy. TSitologiia 1 no.6:649-652 N-D 159.

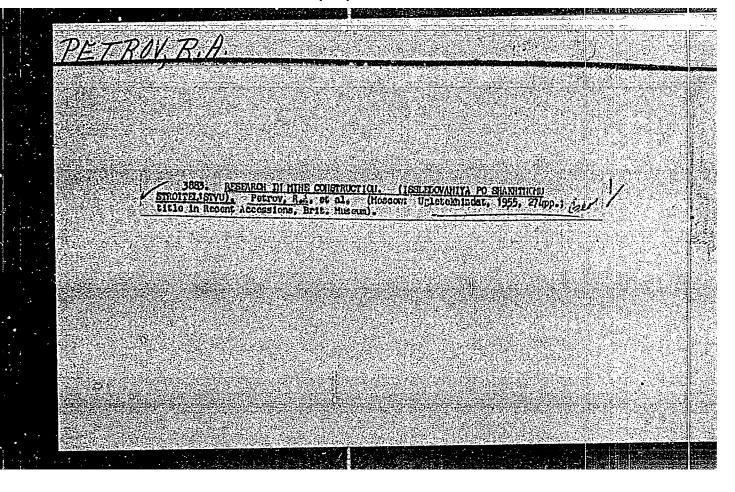
1. Kafedra farmakologii Blagoveshchenskogo meditsinskogo instituta.
(CTANOCOBALAMINE) (LIVER--DISEASES) (DYSTROPHY)

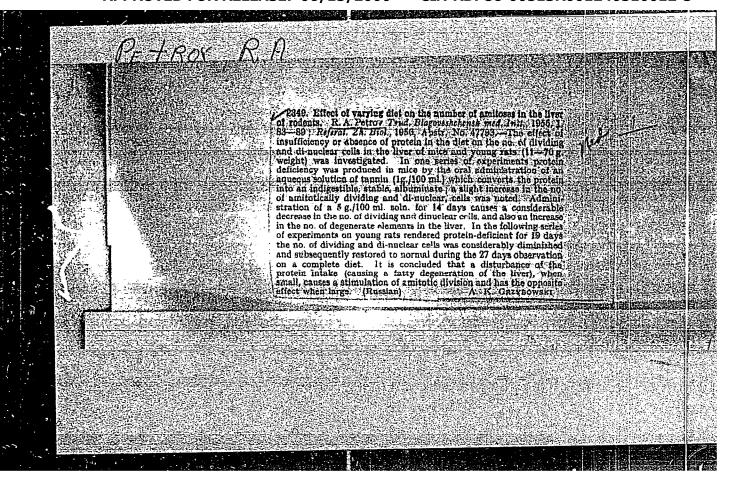
BLIDCHENKO, I.F., inzh.; PETROV, S.A., inzh.

Lubricating oils for the cylinders of locomotive steam engines. Trudy TSNII MPS no.180:114-138 '59.

(MIRA 13:4)

(Locomotives--Lubrication) (Steam engines--Cylinders)





L 47324-66 EWT / EWT (m) /T/SWT (t) /ETI LIP(e) JE /BG SOURCE CODE: UR/0058/66/000/004/A077/A	077
AUTHOR: Titova, A. G.; Petrov, R. A. TITLE: Growing and certain properties of ferromagnetic single crystals of the sys [Bi3-2xCa2x][Fc2] (Fe3-xVx)O12 SOURCE: Ref. zi Fizika, Abs. 4A646 REF SOURCE: Si. Simpozium. Protsessy sinteza i rosta kristallov i plenok polupr vodnik. materialov, 1965. Tezisy dokl. Novosibirsk, 1965, 41-42	tem
TOPIC TAGS: single crystal growing, ferromagnetic material, crystallization, gurn crystal orientation ABSTRACT: Single crystals of ferromagnetic garnets containing no rare-carth elements in the charge were obtained by the method of crystallization from a solution in a malt. The solvent and the ratio of the components in the charge were selected. The maximum heating temperatures were obtained as functions of the ratio of the components and their mutual solubility. The solubility of garnet crystals in the investigated solvents was investigated in order to obtain the temperature of the end of crystalization. The phase composition of the melt after the end of the crystallization was determined. A study was made of the upper outlines of the crystals, and the connection between the outlines and the chemical composition of the crystal and the grow conditions was investigated. The microstructure and some physical properties of the synthesized crystal were investigated. [Translation of abstract] SUB CODE: 20	nt e 11- 4- c-
Card 1/1	ر اکس

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240510012-5"

ACC NR: AP7002412

SOURCE CODE: UR/0363/66/002/012/2260/2261

AUTHOR: Titova, A. G.; Yerastova, A. P.; Petrov, R. A.

ORG: none

TITLE: Growing and certain properties of ferromagnetic garnet crystals $Bi_{3-2x}Ca_{2x}Fe_{5-x}V_{x}O_{12}$

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 12, 1966, 2260-2261

TOPIC TAGS: garnet, saturation magnetization, vanadium compound, bismuth compound, calcium compound, iron compound

UDC: 553.85

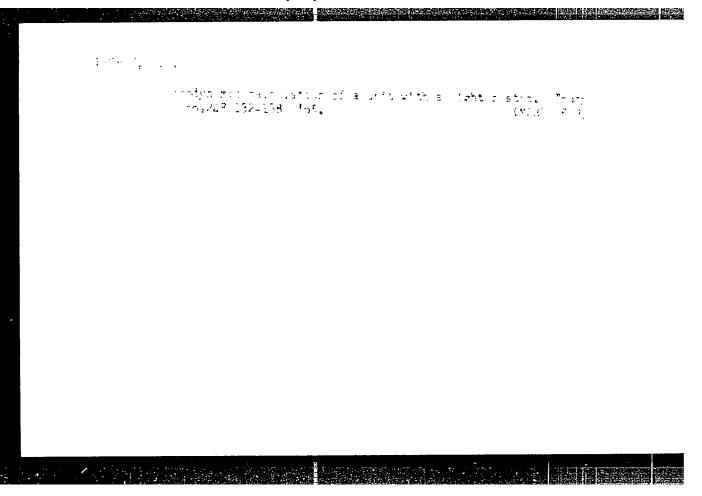
Card 1/2

ACC NR: AP7002412

relatively low value of 24H and are therefore strong competitors of expensive yttrium iron garnet. Orig. art. has: 2 figures.

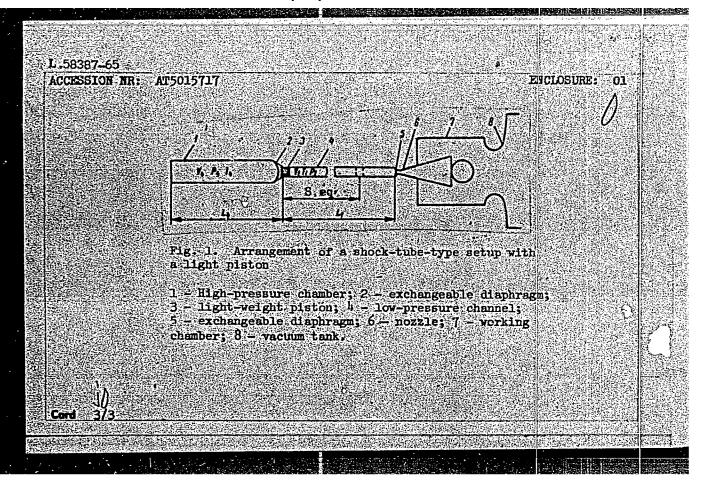
SUB CODE: 07/ SUBM DATE: 12Jan66/ ORIG REF: 002/ OTH REF: 002

Card 2/2



L 58387=65 EWT(1)/EWP(m)/EWA(d)/EPR/ECS(k)/EWA(h)/EWA(c) Pd=1/P1_1 3WN ACCESSION NR: AUS015717 UR/2563/65/000/248/0132/0138 ACCESSION NR: AT5015717 AUTHOR; Petrov, R. L. TIPLE: Gas-dynamic design of a light-piston appliance SOURCE: Leningrad Politekhnicheskiy institut. Trudy, no. 248, 1965. Tekhniche skaya gidrogazodinamika (Technical gas hydrodynamics), 132/138 TOPIC TAGS: shock tube, nozzle flow analysis, shock wave analysis, shock tube design, reflected shock wave ABSTRACT: The arrangement of a shock-tube-type setup with a light-weight piston is shown in a schematic leyout (see Fig. 1 of the Enclosure). Before the experiment starts the chamber lis filled with a light gas under high pressure; the channel h with a low-pressure working gas, and the chamber 7 and tank 8 are evacuated. The motion of the piston 3 after the rupture of the disphragm 2, as well as the motions of a rarefaction wave behind and a shock wave in front of it, the retardation of the piston caused by the reflected shock wave and its standstill (equilibrium) at the distance Seg (close to 41), the rupture of the disphrage 5, and the efflux of the working gas into the nozzle are discussed and analyzed. Equations are derived for determining the paths of the piston and of the shock wave, as well as for the pres-Card 2 1/3

L 58387-65			
ACCESSION NR: AT5015717			1
sures on both sides of the shock waves and in the space the equilibrium pressure or parameters of the gas expan efflux of the gas into the the gas-dynamic parameters an oxygen-hydrogen mixture the computation is given, a art: has: 2 tables, 4 figu	ce between the face of the the piston are discussed in a nozzle of give working chamber 7. A nution appliate used as the driving gasted the results are shown	e channel 4 and the piston, d and used to determine the n dimensions, and the time merical example of calculat nce in which helium heated s is presented; the algorit	and of ting l by hm o
	y politekhnicheskiy instl	tut (Leningrad Polytechnic	1
	y politekhnicheskiy insti ENCL: 01	tut (<u>Leningrad Polytechnic</u> SUB CODE: ME	n <u>î</u>
Institute) SUBMITTED: 00			<u> 1</u>
ASSOCIATION: Leningradski Institute) SUBMITTED: 00 NO REF SOV: 003	ENCL: 01	SUB CODE: ME	n3
Institute) SUBMITTED: 00	ENCL: 01	SUB CODE: ME	63



(MIRA 17:3)

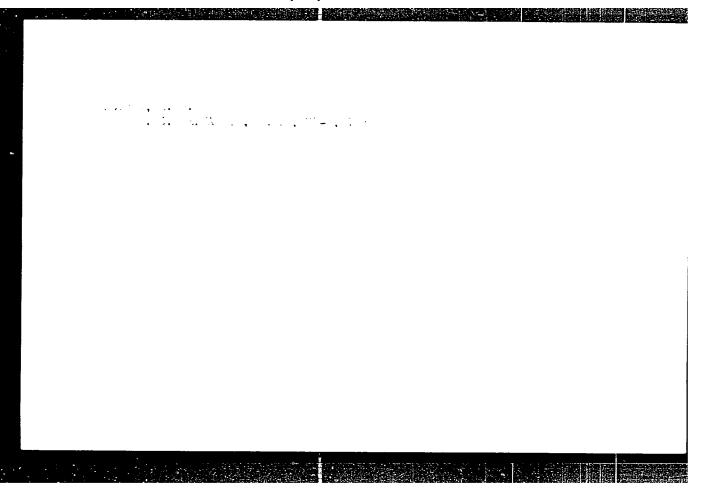
VAKHER, E.A. [Vaher, E.]; PETROV, R.M.

Investigating the drilling of large wells with a core-drill unit.

Khim. i tekh. gor. slan. i prod. ikh perer. no.11:93-101 '62.

PETROV, R.P.; BATASHEV, B.G. [Batashov, B.H.]; ONOPRIYENKO, M.Ye. [Onopriienko, M.IE.]

Some remarks on the stratigraphic scale of the Greater Krivoy Rog Basin. Geol. zhur. 25 no.2:105-107 '65. (MIRA 18:6)



LEVINSON-LESSING, F.Yu. [Loewinson-Lessing, F.IU.]; STRUVE, E.A.;

PETROV, R.P.; DEMIN, A.M.; BORSUK, A.M.; YEZHOV, A.I.;

AFANAS'YEV, G.D., red.; PETROV, V.P., red.; USTIYEV, Ye.K.,

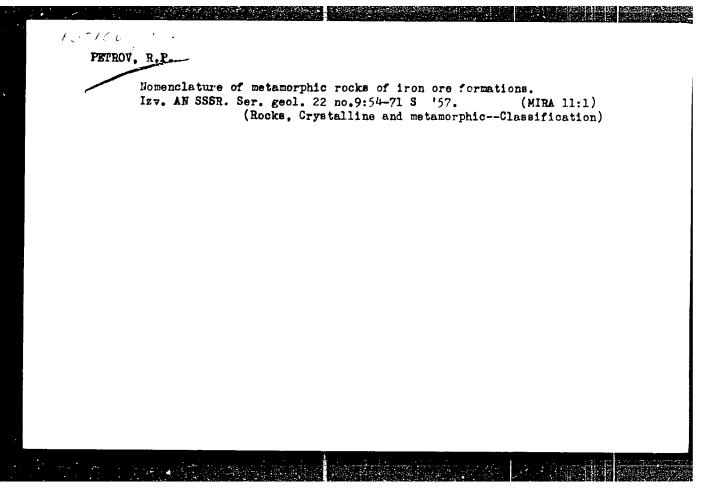
red.; VLASOVA, i.V., red. izd-va; SAMARCHYAN, L.M., red.

izd-va; SMIRNOVA, Z.A., red.izd-va; GUROVA, G.A., tekhn.

red.

[Dictionary of petrography] Petrograficheskii slovar', Perer. i dop. R.P.Petrovym i dr. Pod red.G.D.Afanas'eva, V.P. Petrova i E.K.Ustieva. Moskva, Gosgeoltekhizdat, 1963. 447 p. (MIRA 16:6)

(Russian language--Dictionaries) (Petrology--Dictionaries)



PETROV, R.P., kandidat geologo-mineralogicheskikh nauk.

Contribution to the graphic method of determining the yield and extraction of the useful component. TSvet. met. 26 no.2:31-33 Mr-Ap '53. (Ore dressing)

(Ore dressing)

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240510012-5

PETROV,

AUTHOR:

Petrov, R.F.

11-9-6 14

TITLE:

On the Terminology of Metamorphic Rocks of Iron-Ire Formations (K nomenklature metamorficheskikh porod zhelezorudnykh for-

matsiy)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1057, # 9, p 54-71 (USSR)

ABSTRACT:

The author analyzes the terminology of the rocks composing iron-ore formations, which is used in the Soviet Union and abroad, and criticizes its drawbacks as insufficiently definite and sometimes even confusing and misleading. The author puts forward the problem of systematization of terminology and suggests that the rocks of iron-ore formations should be classified on the basis of simple diagnostic signs. All the rocks of the iron-ore formations can be divided into 3 groups: single-component rocks, bi-component rocks and three-component rocks. The single-component rocks can be made up of silicic acid (a); oxides of iron (b); and silicates (c). Pi-component rocks contain one or another combination of two of the three single-component rocks. There exist all three possible combinations: (ab), (bc) and (ac). The ratio of components can vary from zero to 100 %. Three-com-

Card 1/2

YEMEL'YANENKO, O.V.; NASLEDOV, D.N.; PETROV, R.V.

Hernst-Ettingshausen effect in p-type gallium arsenide. Fiz. tver. tela 2 no.10:2455-2457 160. (MIRA 13:12)

1. Fizkio-tekhnicheskiy institut AN SSSR, Leningrad. (Gallium arsenide—Electric properties)

PETROV, R.V.

Antagonistic properties of Streptococcus lactis. Zhur.mikrobiol.epid.
i immun. no.4:79 Ap 154. (MLRA 7:5)

1. Iz kafedry mikrobiologii Voroneshskogo meditsinskogo instituta. (Streptococcus lactis)

Simple appratus for sterile crushing of organs. Lab.delo no.1:
22-23 Ja-1 '55. (ULRA 8:8)
(CULTURE MEDIA,
appar. for sterile crusing of organs for bacteriol.diag.)

88. Susceptibility of Irradiated Animals to Disease Increased

"Use of Irradiated Animals in Laboratory Practice," by R. V. Petrov, Laboratornoye Delo, No 6, Nov/Dec 56, pp 14-17

The irradiation of animals to increase their susceptibility to various infectious diseases can be used in laboratory practice. "Both the data in the literature and the results of our investigations make it possible for us to recommend the use of animals exposed to sublethal doses of radiation (X rays, gamma rays, etc.) for certain practical and reserach purposes." Irradiated animals may be used for the following purposes: increased susceptibility to various pathogens; biological tests for tuberculosis, leptospirosis, and possibly other infections; the accumulation of a large number of pathogens, for example, Rickettsia, in an animal organism; increased pathogenicity of bacteria; and comparison of the effectiveness of various therapeutic preparations. (U)

```
Modifications in the antigenic properties of tissues in radiation sickness in rats. Biul.eksp.biol. i med. 41 no.4:59-61 Ap '56.

1. Predstavlena deystvitel'nym chlenom AMN SSSR N.N.Znukovym-

(RADIATION SICKNESS, experimental, antigenic changes in (Rus))

(ANTIGENS AND ANTIBODIES, antigenic changes in exper. radiation sickness (Rus))
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Raised protective characteristics of anti-tetanus serum after its irradiation with roentgen rays. Biul.eksp.biol.med. 41 no.5:48-51 May '56. (MIRA 9:8) 1. Predstavlena deystvitel'nym chlenom AMN SSSR N.N. Zhukovym-Verezhnikovym (IMMUNE SERUMS tetanus antiserum, eff. of x-irradiation) (TSTANUS, immunol. antiserum, eff. of r-irradiation) (ROENTGEN RAYS, eff. on tetanus antiserum)

USSR/General Problems of Pathology - Immunity

U-1

: Ref Zhur - Biol., No. 18, 1958, 84712 Abs Jour

Author : Petrov, R. V., Illina, L. I. Institute : No institute is given

: The Antigenic Properties of Tissues of Irradiated litle

Animals

: Tr. Vses. konferentsii po med. radiol. Eksper, med. Cris Inb

radiol. Moscow, Medgiz, 1957, 180-183

: Rabbits were immunized with an emulsion of tissues Abstract

(liver, spleen) or with the blood of normal rats (NR) or of rats (IR) irradiated with 5000 r of X-rays. Antisera against the tissues of the NR reacted in approximately the same titer with the antigen (A) of these tissues and of the tissues of the IR; however, antisera against the tissues of the IR contained far fewer agglutinins and complement-binding antibodies against the A of normal tissues than against the

tissue A of the IR. Studies were also made of the

Card 1/2

PETROV, R.V.

Sensitivity of irradiated snimels to pathogenic anaerobic "organisms and effectiveness of seroprophylaxis of anaerobic infection in radiation injuries. Med.rad. 2 no.2:60-65 Mr-Ap '57. (MLRA 10:7) (GAS GANGRENE, experimental, eff. of gamma rays on sensitivity of animals to infect. & seroprophylaxis (Rus)) (TETANUS, experimental, same) (GAMMA RAYS, effects, on exper. gas gangrene & tetanus susceptibility in animals, seroprophylaxis (Rus))

USSR / General Problems of Pathology.

U

Abs Jour: Ref Zhur-Biol., No 11, 1958, 51505.

Author

: Petrov, R. V., Ipina, L. I.

Inst

Not given.

Title

: On the Mechanism of the Allergenic Action of

Antibiotics.

Orig Pub: Antibiotiki, 1957, 2, No 4, 3-7.

Abstract: Under the effect of antibiotics (4-5 injections of 5000 units of streptomycin and 2000 units of penicillin) antigens appeared in the tissues of mice. (Apparently protein and antibiotic complexes). It is possible with these antigens to sensitize guinea pigs to antibiotics. (Test in

an isolated intestinal loop.)

Card 1/1

PLTKEY R 1

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240510012-5"

Moninfectious immunology with regard to the biological effects of ionizing radiation [with summary in English]. Med.rad. 2 no.6:3-12 N-D '57. (MIRA 11:2)

(ROENTGEN HAYS, off. on noninfect ous immun., review) (IMMUNITY, eff. of radiations on x-rays on noninfectious immun., review)

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240510012-5

Country Catogory	: USSR F : derested when the contract of the stage of the
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Author Institut. Tit: Orig Pob. Atatract Card:	Hetrov, A The alocal and the first and a property of process in array and decreased and and the substitution of the process of the Mikro cole, be pidemiol, is lemanobiol, 1957, Ac. 5, 195-107. The about, the side and the runner pike were used. Irraciation was very red with substitution codes of X-rays: 5.8-box refer the runner pike. In animals infected it at 2 to 24 degree after irraciation, the remation of animoles was delayed in comparison with controls, and their fitters were lever; in those infected 2 days after irradiation, no antibodies were found in the about. The le cospiremic chase in irradiated and ris was arbitrated beyond that in the costrols. The advantage of leptokpiremoa was extended in proportion to the extent of surverssion of an image.

Germany Color of the Color of t

PETROV, R.V.

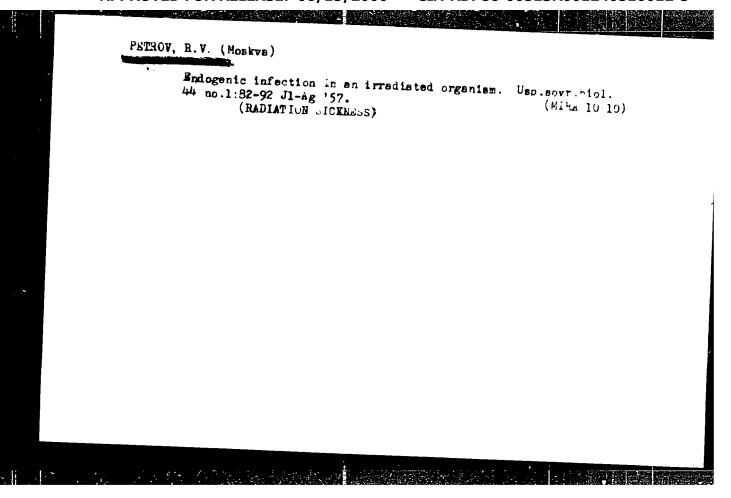
Quantitative characteristics of autoinfection in radiation sickness [with summary in English]. Vest.rent. i rad. 32 no.1:3-8 Ja-F *57.

(ROENTGEN RAYS, eff.

induction of penetration of intestinal bact. into system in white rats)

(INTESTINES, bacterial.

penetration of bacteria into system after x-irradiation in white rats)



"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240510012-5

PETRUX, CV

USSR /Microbiology. Medical and Veterinary

F-6

Microbiology.

Abs Jour: Referat. Zh.-Biol., No. 9, 1957, 35681

Author: Petrov, R.V.

Title : The Increase in the Protective Properties of

Anti-Tetanus Serum After its Irradiation with

X-rays.

Orig Pub: Biul eksperim. biol. i meditsiny, 1956, 41,

No. 5, 48-51

Abstract: The anti-tetanus serus "Diatherm 3 IEM AMN" was

exposed in open glass beakers to a total dose of 510 thousand r. The serum was tested several days after the irradiation by injecting mice immediately after their infection with an absolutely fatal dose of tetanus germs. The injection

Card 1/3

USSR /Microbiology. Medical and Veterinary Microbiology.

F-6

Abs Jour: Referat. Zh.-Biol., No. 9, 1957, 35681

of non radiated serum saved 7% of the animals from death and the irradiated 35%. The irradiated serum caused a more expressed leucocytosis and phagocytosis of stapphylococci in comparison with the non radiated. The nonspecific stimulation of protective powers in the organism is evident in that the irradiated serum preserved from death after infection with typhoid bacteria, more than twice the number of mice that the non radiated did. Concerning this same matter, in the opinion of the author, the fact speaks that the irradiated serum doubles the

Card 2/3

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Same to the contract with

::10 : Sensitivity of frm. Sec. 15 No to into entire more rober and Efficiency read of dorse for poplants of their bid Infusifono in hel ation diameter.

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stared being to a misself committee the material (the 435 m, power live a measulant discount by the formmoralica is the second of the moral (A) and element (7). Exist of of the Francis and re

: 1/3

Factors.

The Jerry had Zimrebicke, 17 2 1956, 93734.

mined by the number of animal deaths, was a tell with infection 5 days after radiation, and after 15 - 37 days sensitivity returned to the normal level. Incrossed sensitivity to be tetani was expressed by death in 4 days instead of 6 in the control of all the tice lifected 10 hours after radiation. In minea pigs, infected with D. perfringens 10 hours after I diaties with 367 r, the course was more severe than in the control animals - in a large percent of the cases the former diel even earlier than the latter. In young pigs infected with GG twenty-four hours after radiation an involinte injection at the focus of infection of 0.2:1 (160 AU) of serv. aminst D. perfringers have the same prophylatic effect as in the controls. Some prophylaxis of tetarus

Card : 2/3

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PETROV, R.V.; ROGOZKIN, V.D. (Moskva)

Principles of antibiotic therapy in acute radiation sickness.
Pat.fiziol. i eksper.terap. 2 no.1:3-11 Ja-F 15%.

(HERA 12:7)

(ADDIATIONS, inj. eff.

eff. of antibiotics in exper. animals, review (Rus))

(ANTIBIOTICS, effects,
on exper. radiation inj., review (Rus))
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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240510012-5

KLEMPARSKAYA, N.N.; PETROV, R.V.; IL'INA, L.I.

Biological effect of cellular structures from normal and irradiated animals [with summary in English]. Med.rnd. 3 no.1:34-41 Js-7 '53.

(RADIATIONS. effects. (NIRA 11:4)

biol. eff. of cellular structures isolated from irradiated animals (Rus)

PETROV, R.V. (Moskva)

```
Exogeneous infections in radiation sickness. Usp.sovr.biol.

46 no.1:48-61 '58 (MIRA 11:9)

(INFECTIONS, experimental,

eff. of radiations on exogenous infect., review (Rus))

(RADIATIONS, effects

on exper. exogenous infect., review (Rus))
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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240510012-5

IL'IMA, L.I. (Moskva); PETROV, R.V. (Moskva)

Features of protein synthesis in the organoids of tissue cells of normal and irradiated white rats. TSitologia 1 no.3:280-292 My-Je '59. (MIRA 12:10) (PROTEIN METABOLISM) (RADIATION--PHYSIOLOGICAL EFFECT)

PETROV, R.V.; SHIKHODYROV, V.V.

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Morphological changes in experimental leptospirosis in irradiated guinea pigs. Med. rad. 4 no.5:20-23 My '59. (MIRA 12:7) (IEPTOSPIROSIS, exper.

eff. of x-irradiation on morphol. changes in guinea pigs (Rus))
(ROENTGEN RAYS, eff.

on morphol. changes in exper. leptospirosis in guinea pigs (Rus))
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PETROV, R.V.; IL'INA, L.I.

On species, organ, and organoid specificity of tissue antigens in irradiated animals. Med.rad. 4 no.12:41-47 D '59. (MIRA 13:5)

(ANTIGENS)
(RADIATION SICKNESS exper.)

SERGIN, S.A.; PETROV, R.V.

Small size P-76-ShG4 spinning machine. Tekst. prom. 19 no.5:26-28 My '59. (MIRA 12:10)

1.Starshiy inzh.-konstruktor Penzenskogo mashinostroitel'noge zaveda (for Sergin). 2.Starshiy inzhener ispytatel'noy stantsii Penzenskogo mashinostroitel'nogo zaveda (for Petrov).

(Spinning machinery)

17 (10, 12) SOV/16-59-6-6/46

AUTHORS: Klemparskaya, N.N., Sosova, V.F., Alekseyeva, O.G., Petrov, R.V.,

Chekatilo, G.A. and Nemirovich-Danchenko, O.R.

TITLE: A Study of Some Aspects of the Action of Antibiotics on Radiation

Sickness

PERIODICAL: Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1959? Nr 6,

pp 26-34 (USSR)

ABSTRACT: The article was presented at a conference in the Tsentral'nyy nauchno-

issledovatel skiy rentgeno-radiologicheskiy institut Ministerstva zdravookhraneniya SSSR (Central X-ray and Radiological Research Institute of the Ministry of Public Health, USSR) in Leningrad on November 29, 1957. It is a symposium of articles by various authors on the effects of anti-

biotics on the microflora of the body after irradiation and certain factors of the body's reactivity. Sosova studied the effects of streptomycin, biomycin and penicillin on the development of infectious inflammation in rabbits irradiated with 800-1,100 r of X-rays. Chekatilo

studied the effects of per os administration of biomycin in doses of 1 mg for 6-12 days on the amount of microbes contained in the colon of

Card 1/3 white mice irradiated with 600 r of X-rays. Nemirovich-Danchenko studied

SOV/16-59-6-6/46

A Study of Some Aspects of the Action of Antibiotics on Radiation Sickness

the properties of microflora excreted by dogs treated with polonium. Alekseyeva confirmed the antibiotics-resistance of commensal microflora in dogs which received per os slow-radioactive Strontium -90 but were not treated with antibiotics. U.G. Gasanov, M.N. Yegorova, Z.V. Yermol yeva, V.Ya. Kudryavtseva and G.P. Rudnev have noted the great effects of antibiotics on many physiological processes and immunobiological activity. Alekseyeva studied the intensity of the phagocytic reaction of blood leukocytes in dogs irradiated with 600 r of X-rays, of whom some were given antibiotics therapy. N.N. Klemparskaya, S.L. Kras: nskaya, T.M. Kokhanovskaya, Ye.I. Milevskiy, Kh.Kh. Planel yes and N.V. Chumachenko have studied the effects of antibiotics on immunity with contradictory results. G.A. Mikhaylets has studied their effect on allergy. R.V. Petrov and L.I. Il'in have investigated the possibility of forming complex antigen (allergen) groups by combining antibiotics with substances from the tissues of the living organism. From the above works a number of conclusions may be drawn. The introduction of antibiotics into animals, irradiated with lethal X-ray doses before infection, helps to prevent the development of inflammatory infection. Resistant microbe strains in the irradiated body seem to react to antibiotics by increasing in virulency; their number in the tissues and

Card 2/3

30V/16-59-6-6/46

A Study of Some Aspects of the Action of Antibiotics on Radiation Sickness

body surfaces also increase. The commensal bacteria in the intestines of an irradiated body show an increased resistance to antibiotics, without antibiotics having been used, simply under the influence of changed environmental conditions. The administration of antibiotics may provoke neutropenia and thus diminish the effectiveness of the phagocytic reaction. Antibiotics tend to inhibit the development of anaphylaxis to heterogenic protein. Antibiotics may themselves be allergens as a result of their combination with body substances.

There are 3 photos, 6 figures, 1 graph, 1 table and 15 references, 14 of which are Soviet and 1 English.

SUBMITTED:

December 27, 1957

Card 3/3

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PETROV, R.V.; KABAKOV, Ye.N. (Moskva)

C reactive protein: survey of foreign literature. Klin. med. 37 no.5:28-32 My '59 (MIRA 12:8)

(BLOOD PROTEINS

C reactive protein, review (Rus))
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ZHUKOV-VEREZHNIKOV, N.N.; PETROV, R.V. (Moskva)

Immunology of growth and cell and tissue development as a new branch of biology. Usp. sovr. biol. 47 no.2:235-254 Mr-Ap '59. (MIRA 12:7)

(IMMUNOLOGY,

developmental, review (Rus))

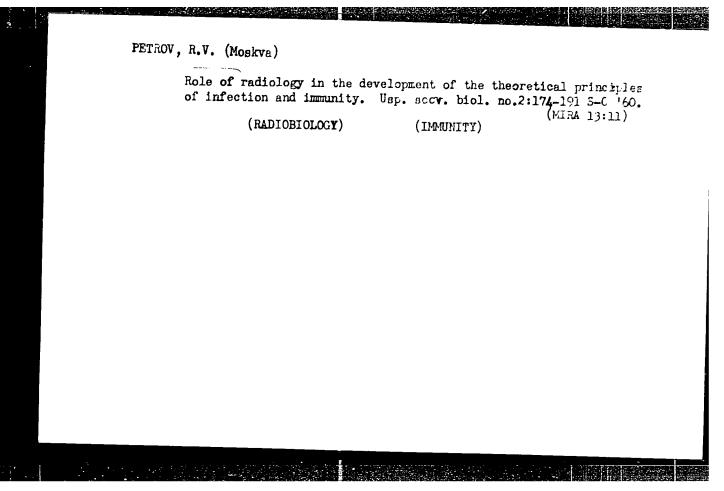
(GROWTH,

developmental immunol., review (Rus))
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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240510012-5

LEBEDINSKIY, A.V., red.; KRAYEVSKIY, N.A., red.; K.(OTKOV, F.G., red.; GRIGOR'YEV, Yu.G., red.; MARGULIS, U.Ya., red.; PETROV, h.V., red.

[Collection of abstracts on radiation medicine for 1957] Sbornik referatov po radiatsionnoi meditsine za 1957 god. Moskva, Medgiz. Vol.1. 1959. 202 p. (MIRA 17:5)



IL'INA, L.I.; PETROV, R.V.

Protein metabolsim and immunological peculiarities of cellular organoids in scute radiation sickness. TSitologia 2 no.3:296-303 My-Je '60. (MIRA 13:7)

1. Akademiya meditsinskikh nauk SSSR, Moskva.
(PROTEIN METABOLISM) (RADIATION SICKNESS)

04774

24.7700 (1043,1143,1559) 262420

S/181/60/002/010/016,051 BO19/BO56

Yemel'yanenko, O. V., Nasledov, D. N. and Petrov, R. V.

TITLE:

The Nernst-Ettingshausen Effect n p-Type Gallium Arsenide

PERIODICAL:

Fizika tverdogo tela, 1960, Vol. 2, No. 10, pp. 2455-2457

TEXT: In an earlier paper (Ref. 1) the authors investigated the Nernst-Ettingshausen effect in n-type gallium arsenide. The coefficient Q of the transverse Nernst-Ettingshausen effect in p-type gallium arsenide is graphically represented as a function of temperature. As it turned cut, Q is considerably lower for p-type gallium arsenide than for n-type gallium arsenide. This is due to a lower mobility of the holes as compared to the electrons. At temperatures below room temperature, is negative, which may be explained by the scattering of carriers by impurity ions. This explanation agrees with measured results of the Hall-mobility of holes. Above 350 to 4500K, Q becomes positive. This convinces the authors of the fact that at these temperatures the acoustic vibrations are the main scattering centers. The mixed conductance

Card 1/2

The Nernst-Ettingshausen Effect in p-Type Gallium Arsenide

S/181/60/002/010/016/051 B019/B056

beginning at 600 - 800°K again makes we negative. Finally it is pointed out that the results obtained here may be explained by the modern theory of thermomagnetic effects. Furthermore the results obtained make it possible to estimate the part played by acoustic vibrations of the lattice in scattering processes. There are 1 figure : table, and ; references. 2 Soviet and 1 US.

ASSOCIATION.

Fiziko-tekhnicheskiy institut AN SSSR Leningrad (Institute of Physics and Technology of the AS USSR, Leningrad)

SUBMITTED.

April 4 1960

Card 2/2

ZHURAVLEV, A.I.; BENEVOLENSKIY, V.N.; PETROV, R.V.

Possible mechanism of the preventive activity of antibiotics in radiation injury. Antibiotiki 5 no.6:87-91 N-D '60. (MIRA 14:3) (ANTIBIOTICS) (RADIATION PROTECTION)

KLEMPARSKAYA, N.N.; PETROV, R.V.

Role of immunological research in studying the pathogenesis of acute radiation sickness. Radiobiological 1 no.4:583-590 (MIRA 17:2)

SHIKHODYRO7, 7.V.; PETROV, h.V.; SHITNEVA, M.F.

Signs of porous connective tissue sensitization in acute

radiation sickness. Pat. fizicl. 1 eksp. terap. 5 nc.58 (MIRA Pal)

PETERSON, O.P.; BEREZINA, O.N.; KOZLOVA, I.A.; SKLYANSKAYA, Ye.I.; PETROV, R.V., red.; ZAKHAROCA, A.I., tekhn. red.

[Influence of ionizing radiation on virus infections and on antiviral immunity] Vliianie ioniziruiushchego izlucheniia na virusnye infektsii i protivovirusnyi immunitet. Moskva, Gos. izd-vo med. lit-ry Medgiz, 1961. 165 p. (MIRA 14:9) (RADIATION—PHYSIOLOGICAL EFFECT) (VIRUS DISEASES) (IMMUNITY)

PETROV, R.V.

37201

27 2400

\$/560/61/000/011/007/012 E027/E635

AUTHORS:

Zhukov-Verezhnikov, N.N., Mayskiy, I.N., Yazdovskiy, V.I., Pekhov, A.P., Gyurdzhian, A.A. Nefed'yeva, N.P., Kapichnikov, N.M., Podoplelov, I.I., Rybalov, N.I., Klemparskaya, N.N., Klimov, V.Yu., Novikov, S.N., Novikova, I.S., Petrov, R.V., Sushko, N.G., Ugryumov, Ye.P., Fedorova, G.I., Zakharov, A.F., Vinogradova, I.N., Chamova, K.G.

and Buyko, Ye.A.

TITLE:

The results of the first microbiological and

cytological experiments in Space in Earth satellites

SOURCE:

Akademiya nauk SSSR. Iskusstvennyye sputniki Zemli. no. 11. Moscow, 1961. Rezul'taty nauchnykh issledovaniy, provedennykh vo vremya poletov vtorogo i tret'yego kosmicheskikh korabley-sputnikov, 44 - 67

TEXT: The authors report the results of their investigations of biological objects which had been exposed to space conditions in satclife vehicles. The first part of the work was devoted to a study of the survival of cells of differing levels of grant partion under the influence of radiation and other and 1/5

S/560/61/000/011/007/012 E027/E635 11

The results of the ---

unfavourable factors, in comparison with control materials which remaine: in the laboratory over the same period. In experiments with bacteria 2ml, samples of suspensions of Escherichia coli. Aerobacter aerogenes, Staphylococcus aureus and Clostridium butyricum containing 500 million organisms or spores per ml, were sealed in ampoules, and exposed to a space flight of unstited duration; the number of viable individuals after the exposure did not differ simificantly from the values for the control samples. A similar experiment was carried out with the T2 place of E, coli and the 1321 phace of A, aerogenes, which were sent in the second satellite; again, no significant reduction in the titre of the phage preparations could be detected after return from space. Similar results were obtained with preparations of phage sent into space in the fourth and fifth satellites. Two bottles and six tubes of HeLa cells, some of which were saturated with oxygen, were exposed to space flight

Card 2/5

5/560/61/000/011/067/C12 E027/E635

The results of the . ..

conditions, after it had first been shown that vibration and acceleration did not detach the cells from the glass. The cultures without exygen appeared normal on return, whereas in those exposed to oxygen most of the cells had degenerated. Subculture showed that 50% of the cells, whether detached from or remaining on the glass, were dead; however, two tubes gave good growth, and the cells which grew up showed no abnormalities of morphology. No antigenic differences could be detected in the cells in anaphylaxis and desensitization experiments in guineapigs. In subsequent space flights fibroblast and human amnion cell cultures were studied, with similar results. Pieces of human and rabbit skin were also used. On August 12th 1960 two pieces of skin 2.5 \times 3.5 cm. in size and 0.5 mm. thick were taken from a human donor, placed in Hanks solution and sent into space in the second satellite. On recovery they were regrafted on the original site in the donor and became firmly attached after seven days. Card 3/5

The results of the ---

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Similar results were obtained with two other donors. An apparatus was devised for making a subculture in space, in order to study the ability of bacteria to multiply under space conditions. experiments with Glostridium butylicum no deviations from the controls were observed. The second part of the work was devoted to a study of possible genetic effects brought about by exposure to space conditions, mainly by looking for the production of auxotrophic mutants and lysogeny in bacteria. The former were detected by inoculation on a layer of minimal medium which was then covered with an overlay of the same medium in order to fix the colonies. When the latter had grown up their position was noted and an overlay of complete medium was then put on, and the colonies which then grew up as a result of the diffusion of essentialnutrients were selected as auxotrophic mutants. No such mutants could be found in suspensions of Escherichia coli recovered from the second satellite. The exporiments on the induction of lysogenic baceria were carried out on a strain of E. coli lysogenized by a λ phage which had been exposed to cosmic

Card 4/5

The results of the ---

S/560/61/000/011/007/012 E027/E635

radiation in the fifth satellite. Free phase particles were removed by adding phase antiscrum; after the end of the latent period the action of the antiscrum was cut short by diluting 1:100, streptomycin was added to inhibit the host organisms, and the mixture was plated out on the indicator strain in order to count the phage particles produced. The results obtained, considered in comparison with control experiments, provided no evidence of induction by cosmic radiation during a space flight of ninety minutes. No difference was observed in the plaque morphology. No changes could be detected in the chemical and physical properties of calf thymus dexyribonucleic acid recovered after a space flight. The results as a whole indicate that no damage was suffered by isolated cells during a brief exposure to space conditions. There are 6 figures and 10 tables.

SUBMITTED: May 23, 1961

Card 5/5

27.2400

S/205/61/001/004/023/032 D298/D303

AUTHORS:

Klemparskaya, N. N., and Petrov, R. V.

TITLE:

The significance of immunological research in studying the pathogenesis of acute radiation sickness

PERIODICAL:

Radiobiologiya, v. 1, no. 4, 1961, 583-590

TEXT: By reference to recent research works, the authors show how immunological studies can assist in clarifying the theory of the pathogenesis of radiation sickness. Of great significance are immunological methods of studying processes such as the denaturation changes in disintegrating tissues, the resorption of antigen tissue substances into the blood and the physiological response to them. New research, the authors point out, has shed new light on the autoimmune process and its role at various stages and with various forms of radiation sickness. Some authors believe that the development of autosensitization is, by and large, impossible due to the general inhibition of antibody genesis after irradiation. The authors point out that this opinion is probably incorrect

Card 1/5

30363

The significance of ...

S/205/61/001/004/023/032 D298/D303

and derives from too short a period of observation in experiments. With early death of the animal, the antibody content of the blood is probably still too small to be detected. In no work did the authors find any case where antibodies were not detected in immunized rabbits after fairly protracted irradiation of the animals. As for the question of prolonged inhibition of antibody genesis, the facts are probably distorted by insufficiently sensitive means of recording antibody synthesis. Modern research indicates that the inhibition of antibody genesis after irradiation is by no means absolute. Modern research also shows that autosensitization phenomena are important for understanding, not all types of radiation death, all living creatures or all primary cell reactions, but only for explaining the mechanism of the development of the pathological reactions in warm-blooded animals as a result of the primary action of definite doses of radiation on the cells, i.e., for understanding the pathogenesis of acute and subacute radiation sickness. Morphological and biochemical research has revealed the destruction of cells in various organs and tissues in the first few hours after irradiation.

Card 2/5

The significance of ...

S/205/61/001/004/023/032 D298/D303

This is accompanied by changes in the tissues antigenic properties and by the circulation of tissue proteins in the blood. The tissuedestruction products which circulate in the blood are inevitably bioactive. Immunological studies have revealed that during the latent period of radiation sickness the body becomes increasingly sensitive to auto-tissue substances and begins to develop auto-antibodies and cytotoxins. In 1960, N. N. Klemparskaya and M. V. Rayeva used a new method, devised by Ouanier (Uan'ye) (1955), for detecting small amounts of antibodies in cases of medicinal allergy, (Ref. 10: Byull. eksperim. biol. i med., No 5, 77, 1961). The authors describe this method as applied to the detection or auto-tissue substances and give an account of the experiments which have been made to test its accuracy. During the clinically marked period of radiation sickness, all autosensitization phenomena increase in intensity. The observations of various researchers on this aspect of the problem are described. These observations show that during acute radiation sickness, all links in the change of the autoimmune process are detected: destruction of the tissues and change

Card 3/5

S/205/61/001/004/023/032 D298/D303

The significance of ...

in their antigenic properties, the circulation of tissue antigens in the bloodstream, the development of a state of autosensitization and the appearance of auto-antibodies. A study of autosensitization is also important for understanding the features of the physiological response to bacterial infection and to antigenic stimulus. Specifically, it might explain the hemorrhagic nature of foci of inflammation. There are indications that, with the body's heightened sensitivity to tissue substances, the local formation of tissue decay products is the decisive factor and leads to appearance of the hemorrhagic nature of the inflammation. Consequently, apart from the injurious effects of bacterial toxins and proteins, the infectious process may directly affect the state of autosensitization by activating the cellular decay process in the foci of inflammation. As for the significance of autosensitization in the physiclogical response to heterogenic antigen stimulation, it is demonstrated that radiation has an injurious effect on the function of the cells which produce antibodies. A number of experimental works show that, apart from the direct injurious action of radiation on the antibody genesis function of cells, there is a further mechanism which inhibits the

Card 4/5

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The significance of ...

immune response to antigens. Underlying this mechanism is the process of autosensitization to the body's own tissue products. Other works show that the physiological response to any antigen induces inhibition of antibody genesis to subsequent antigen stimuli. Instances where this phenomenon has been noted are cited. There are 50 references: 35 Soviet-bloc and 15 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: J. Sterzl, Mechanisms of antibody formation. Prague, p. 107, 1960; H. F. Wood, S. Anderle, C. W. Hammond, C. P. Miller, J. Exptl. Med., 111, 601, 1960; T. Makinodan, Federat. proc., 19, 586, 1960; P. Abramoof, J. Immunol., 85, 648, 1960.

SUBMITTED: March 14, 1961

Card 5/5

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ZHUŁ DV-VERFZENIE DV, N.N.; MAYSEIY, I.N.; YAZDAWSEIY, V.I.; HEF W., A.I.; CYCRDZIAN, A.A.; METED YEVA, N.F.; ŁAFIJENIE W, F.K., Ł.D.I..., I.I.; RYFAI W, F.I.; LIEMFARSEAYA, W.N.; ŁIFFLY, WICH. WILLE, E.N.; N.YIE WA, I.S.; LEIGOV, R.V.; CISHKO, M.J. MATULL, YE F., ŁEDCRWA, G.I.; ZAFVAROV, A.F.; VINOGRADOVA, I.W.; CVAN VA, L.W.; LUYYO, YE.A.

Results of first microbiological and cytological experiments in space on artificial satellites. Isk. eput Zem. no.11:42-(7 %). (EIRa 15:1)

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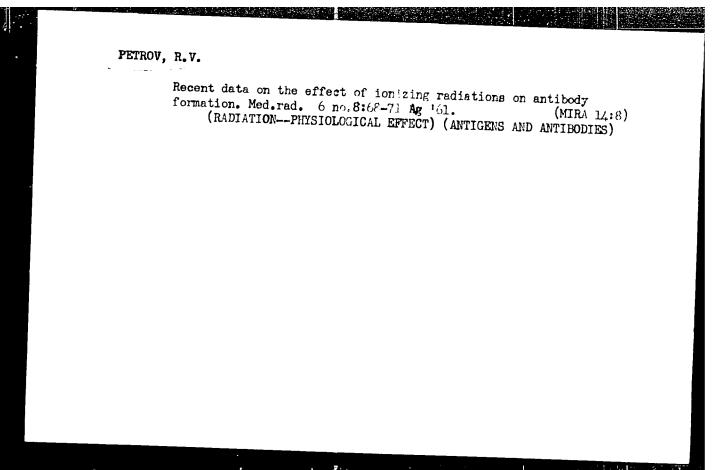
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PETROV, R.V.; L'VITSYNA, C.V.

Incomplete an'itodies desected with the sid of Coombs' test

in the blood of irradiated animals. Pat. fiziol. 1 exsp. terap. 6 no.4:63:58 Jlong 1.2. (MIRA 17:8)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240510012-5"



PHASE I BOOK EXPLOITATION

SOV /6 254

Petrov, Rem Viktorovich

Immunologiya ostrogo luchevogo porazheniya (Immunology of Acute Radiation Sickness) Moscow, Gosatomizdat, 1962. 266 p. 5000 copies printed.

Ed.: A. I. Zavodchikova; Tech. Ed.: N. A. Vlasova.

PURPOSE: The book is intended for radiobiologists, physicians, and investigators in the field of radiation sickness.

COVERAGE: The book discusses the effect of radiation on antimicrobic immunity, infectious complications in irradiated animals, and non-infectious immunology. The author thanks V. N. Benevolenskiy, E. K. Dzhikidze, A. I. Zhuravel, L. I. Il'ina, N. N. Klemparskaya, M. A. Lagun, G. M. L'vitsyna, N. L. Melik-Pashayeva, A. S. Petrova, V. D. Rogozkin, M. F. Sbitneva, A. B. Tsypin, and V. V. Shikhodyrov. References follow each chapter.

Card 1/6

PETROV, R.V.; KOROGODIN, V.I.; LYASS, F.M.; NEYFAKH, A.A.; ROMANTSEV, Ye.F.; VEREVKINA, N.M., red.; MORGUNOVA, G.M., tekhn. red.

[Contribution of radiology to the development of the medical and biological disciplines]Vklad radiologii v razvitie medikobiologicheskikh distsiplin. [By] it.V.Petrov i dr. Minsk, Izdvo M-va vysshego, srednego spetsial'nogo i professional'nogo obrazovaniia BSSR, 1962. 145 p. (MIRA 15:9) (RADIOLOGY) (RADIOLOGY, MEDICAL)

PETROV, R.V.

Use of certain printing techniques in the printing devices of some digital computers. Vych. tekh. no.4:54-64 '62. (MIRA 16:6) (Electronic digital computers)

SHILLER, Natan Yefimovich; SHISHINA, Yuliya Grigor'yevna; PETROV, R.V., doktor biol. nauk, red.; SOROKO, Ya.I., red.; RAKITIN, I.T., tekhn. red.

[Barrier of incompatibility]Bar'er nesowmestimosti. Pod nauchn. red. R.V.Petrova. Moskva, Izd-vo "Znanie," 1963. 39 p. (Novoe v zhizni, nauke, tekhnike. VIII Seriia: Biologiia i meditsina, no.4)

(TRANSPLANTATION OF ORGANS, TISSUES, ETC.)

```
PETROV, Rem Viktorovich, doktor med. nauk; SOROKO, Ya.I., red.;

NAZAROVA, A.S., tekhn. red.

[Immunology and sphinxes of the 20th century] Immunologiia i sfinksy XX veka. Moskva, Izd-vo "Znanie," 1963. 47 p.
(Novoe v zhizni, nauke, ekhnike. VIII Seria: Biologiia, no.8)

(IMMUNITY)

(TRANSPLANTATION OF ORGANS, TISSUES, ETC.)
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ACCESSION NR AMMIOL2768 BOOK EMPLOITATION

Betwer Reg. Victorariohi, Prophysical Philosophic Michael Interview Poly, Visitis Michael Interview Poly, Visitis Michael Interview Poly, Withis 28,000 copies printed.

Topic TAKE: reflective fallout, radiation injury, radiation dosimetry, thermonuclear explosion

TAKE OF CONTENTS [abridged]:

Foreward = 3

Ch. II. Muclear and thermonuclear explosions == 5

Ch. III. Pure tion of radioactive traces == 10

Ch. III. Pure tion of radioactive traces == 10

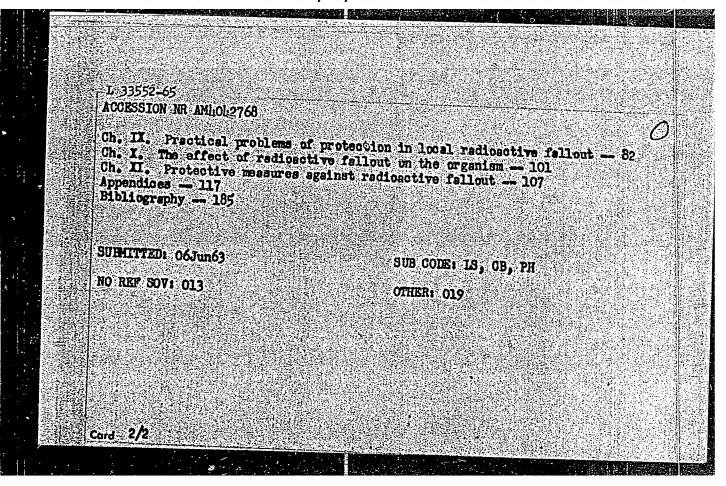
Ch. VI. Lews of the fallout of radioactive fragments == 30

Ch. VI. Instruments and methods of fielding dosimetry of fragments == 10

Ch. VII. Observations of the radiation condition == 10

Ch. VIII. Biological results of irradiation == 67

Cord 1/2



S/205/63/003/001/020/029 B028/2185

AUTHORS: Petroy R.V., and

Petrov R. V. and Sosova V. P.

TITLE: Rel

Relative immunological tolerance induced by

irradiation

PERIODICAL: Radiobiologiya, v.3, no.1, 1963, 99-103

TEXT: In a survey of the literature concerning immunological tolerance the authors put forward three groups of facts which support the hypothesis that the tolerance induced by irradiation is not absolute but relative. 1) The suppression of antibody formation after injection of an antigen which is observed in animals after irradiation is very variable in extent; thus, when sice are immunised with sheep and rat red cells simultaneously and then irradiated, there is almost complete suppression of the formation of antibody to rat cells, and only partial suppression of the formation of antibody to sheep red cells. The same effect can be observed in rabbits immunized with human serum, to which several antibodies are formed in varying amounts. 2) The inductive phase before the appearance of antibody may be greatly prolonged after irradiation of the animal, and leads to the Card 1/2.

Relative immunological tolerance ... S/205/63/003/001/020/029

gronsous impression that antibody formation has been suppressed,
erronsous impression that antibody formation has been suppressed,
whereas examination at a late stage would reveal that antibody
whereas examination at a late stage would reveal that antibody
formation is only delayed, and eventually reaches fairly high
formation is only delayed, and eventually reaches fairly high
titres if the animal lives sufficiently long after irradiation.

transples are given of delayed antibody formation in irradiated
Examples are given of delayed antibody formation in irradiated
Examples are given of delayed antibody formation in irradiated
Examples are formed in irradiated animals in response to autoantigens
are formed in irradiated animals in response to autoantigens
produced by the effect of radiation upon the body proteins.

There are 2 figures and 1 table.

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Card 2/2.

PETROV, R.V.; MAN'KO, V.M.; YEGOROV, I.K.

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Variations in the capacity of antibody production in mice of highly inbred lines. Dokl. AN SSSR 153 no.3:728-730 N '63. (MIRA 17:1)

1. Predstavleno akademikom I.I. Shmal'gauzenom.